some horrible nightmare from which I will awaken in time.

These libelers have all taken a swing at me about my reference in the University of Denver talk to the socalled system of nines, as having perhaps some bearing on the saucers under discussion. Was that really a horrible thing to have done? I am not going to rehash this subject matter as it is all gone into in Scully's book, but I desire to make a few observations of my own about numbers.

To me the ancient lore of numbers has always been a most fascinating study.

Just when and where, and how human beings on this earth first learned to count is likely to be one of the eternal mysteries, whether numbers were discovered or invented, history gives no universally accepted answer. The numbers one, two, three, four, five, six, seven, eight and nine are all there are, and turning back the pages of history to about 3500 B.C. we note that the Egyptians were aware that the sequence of numbers existed, as shown by their records of the capture of prisoners, oxen and goats, but we cannot find that they didn't assume that the numbers one to nine came somewhere to an end.

I've tried to go back to that philosopher scientist Pythagoras who lived about five hundred years before a young man came among men and said "Forgive them Father, they know not what they do," to get some heads or tales to this number business.

Newton and his followers in the 17th and 18th centuries fixed the modern scientific method for astronomical and physical sciences. They were unchallenged until about the third decade of the 20th century. What happened when Sir Arthur Eddington in 1935 challenged the world of science with his observations just shouldn't happen to a dog.

One thing is certain, the long night of error that descended on western civilization in the 17th century may be ended.

Sir Arthur actually went back to Pythagoras, and a saying ascribed to that ancient "Experiment answers nothing. Reason answers all" may yet be inscribed over the entrance to every temple of knowledge and these ancients may have known more by far than we ever give them credit for. Pythagoras said "Everything is number. Let no man ignorant of mathematics enter my doors."

And I am not forgetting another person who lived about this same time in history. This gentleman was a Greek and they called him Thales. Will the name Menzel live so long? Thales among other things discovered magnetism, or at least gets the credit for having done so, and I'm going along with the idea. We know he was the first layman in history to make wisdom a profession.

He said to his grateful citizens, when they asked what reward he wanted for his services to them "Credit for my discoveries." He lived in the time of Croesus whose fame hinges on the three words "Rich as Croesus" and this most amazing of all centuries saw Confucius make his imprint on Chinese culture.

When I suggest that a civilization from some unknown planet might use a system of numbers identical with ours, all hell breaks loose and Menzel et al scoff in their most refined manner. Had they lived in 1820, when Oersted announced that electric current possessed magnetic property and are closely interrelated, what a rock throwing field day they would have had. Magnetism was thought to be a peculiar property possessed by iron when George Washington was President of the United States and had no connection with electricity even when Franklin flew his historic kite. It just so happens the theoretical viewpoint as to magnetism has made the subject a most difficult one to the average student. Electricity has been a stumbling block to the elevation of magnetism to its proper place

in that the theory is that magnetic phenomena are due solely to the movement of electricity.

The fact is that electricity as we know it and use it is one form of the expression of magnetism.

Magnetism, per se, exists in everything and from the atom to the sun, insignificent as it is in the universe, fields of force exist everywhere. There is no such a thing as a "conductor of magnetism."

When magnetic scientists in cooperation with medical research scientists find out how to measure the magnetic fields of the human body and learn to keep these fields in balance that day will see the health of mankind reach such a high state of efficiency that corrective measures as to disease will cease to be a problem.

My father used to say to me "Son, if that machine is functioning as it was designed to operate, let it alone." So I say that machines can be made that will check the energy functioning of each of the seven bodily magnetic fields and this done, diagnosis can be immediate and actual, and the speculative will disappear.

You may ask if anything has been done in this regard. I refer you to Dr. Charles W. W. Hoffman at Syracuse, New York. That doctor scientist is pointing the way by his work in heart and hearing mechanical diagnosis. He told me on a visit to his laboratory that five years before heart trouble shows up by the usual methods of detection, electronic equipment developed in his foundation research laboratories can detect flawsin the heart's field. Certainly in many circles the good doctor's work is now persona grata, but the Hynes and Baruch contributions of two and a half million enables this great institution to carry on.

And there's a scientist out in San Francisco who for twentyfive years has quietly carried on research into the relation of the body's

major magnetic fields to each other. He lays on hands. He rebalances a disturbed field and the patient recovers. His secret should be in the hands of every manipulative therapist in the land and the medical fraternity should embrace his technique for the physical well being of mankind. Perhaps he already knows how the tongues of the entrenched can wag, and as a result he works on silently and without publicity.

A final word on body magnetic fields.

A propos the functioning of a dowsing rod, a forked stick if you please, a group of electrical engineers in April 1952 sought to test Henry Gross to determine if possible the electrical change in living tissue during a dowsing test.

It is unfortunate that the conclusions reached did not get to the care of the whole matter. These scientists were measuring magnetic field changes, and not skin potentials as they thought. The findings of this group are so well documented by Kenneth Roberts in his latest volume "Seventh Sense" there is no need to repeat them here. The very fact that the use of a metal dowsing rod by these earnest experimenters along with the usual fresh cut moisture laden forked stick further supports my claim of there being two magnetic fields at work when Mr. Gross dowses for water on the spot or from a map. The rod is the expression of two body magnetic fields in directed mass interpretation of, in their case, underground flowing water.

I am more than delighted that Mr. Roberts has gone on record as to his stand about scientists. To make a scientific study of what a competent dowser can do is one thing. Unless the approach is always on the theory that the dowser is dowsing by the utilization of a force or forces, he may not understand, and the research is a joint and mutual undertaking no good can come of such experimental

folderol that the skeptical scientist wants to employ. No scientist should lay down rules about some thing he does not understand in the slightest and doesn't believe in any way. All the time he is sitting in his ivory tower thinking up rules and regulations for the Henry Gross's of the world. They are out locating underground flowing waters for thirsty people. He would be far better off if he would let the competent dowser fix the conditions under which the scientific interpretative study could best be handled. The dowser doesn't live, but what time and again he notes things that take place through his rod that he would like to have scientifically checked, on the theory that such study would lead to a better understanding of his work.

The electronic engineers in 1952, working with Messrs. Kenneth Roberts, Henry Gross and Horace Levinson, made the first American scientific test that is of any value as regards a better understanding of the scientific business of water dowsing.

The reader of these pages dealing with flying saucers, magnetics and dowsing may be a bit confused as to why I have devoted so much time and space to these subjects.

The answer is simple and easy. The principle reason I'm writing this life story is to let you the public judge for yourself where I belong, in the criminal category or not. My examination of the flying saucer phenomena enabled me to get a far greater insight into magnetics than I ever dreamed of and since "doodle-bugging" was foisted on me in the trial and prosecution I faced in 1953, it appears in order to tell what I know about all three subjects.

About the first thing I found out was that the ignorance as to magnetism is appalling. Some one, Helmholtz, I think it was, has said "The disgrace of the 19th century is its ignorance of the subject of magnetism."

During the past five years the awakening in the field of magnetic research is heartening. A good bibliography would be a blessing for the student. One thing is certain and that is that as we move forward in the furtherance of our present concept of the structure of the atom, so will we move forward in our understanding of magnetism.

I am gratified to learn that two scientists out at the University of California are toying with this vortex business.

There is no mention of vortex action. Their story is about odd actions of electrons under certain conditions where magnetic forces are used to affect a swarm of electrons.

The absence of a magnetic field, or, as they called, in an electrical charge, created a hole and moving this hole from one orbit to another around the nucleus of a germanium atom, the result was that the electron jumps to another orbit leaving a vacancy or vortex, and wham, another electron jumps into the space, and so on and on the electrons go.

This is exactly the basis of my contention that saucers fly by the adaptation of this idea on a larger scale. The California scientists call this performance moving space through matter. So be it. It's what takes place when in the earth's magnetic field a vortex is established. Something falls into it, and I think the saucer people do that very thing and that's how they travel from home base to our atmosphere in almost the wink of an eye, well in about ten minutes worth of winks if perchance they take off from the planet Venus.

It would be very interesting if Professors Kittell and Kip would tell us the angle at which they direct the magnetic force to make that hole.

The earth's magnetic poles are in constant motion. We know that the auroras are related to vortices and the earth's field from pole to pole does not maintain a constant 90 degree angle to the pole axis. Therefore the magnetic axis of the earth while being a theoretical line between the north and south magnetic poles does not perform actually as it should in a more balanced operation.

We are also aware that there are many variations in the earth's magnetic field, and there is ample proof that these daily variations come from causes outside the earth.

There is an ebb and flow in the earth's magnetic field, and these seem to find maxima about every eleven years. This conclusion is due to there seeming to be a maximum number of magnetic storms about every eleven years.

The sun spots every eleventh year seem to synchronize with the appearance of the greatest number of auroral displays.

I have heretofore reported that the American scientist Walter Russell contended that experiments of mine indicated that the skin of the earth had a thickness or depth of about 30 to 32 miles. Since these experiments were magnetic, I must contend that the earth's magnetic field has depth, and this field's existence by reason alone must exist, so long as the skin of the earth is composed of matter . We are digging holes more than four miles into mother earth's skin and we haven't run out of matter yet. I haven't heard any oil man predicting a bottom.

We know there is a magnetic field about the earth's axis of rotation and it's equatorial plane. Also there is an interplanetary field or solar field and its axis is perpendicular to the place of the ecliptic.

The sun's magnetic field coincides with its axis of rotation, and within its boundaries are the planets, moons and satellites of this solar system. This overall field is the masterfield that keeps the sun and her brood travelling through time and space in a sea whose shore is beyond the horizon of any imagination.

The flight of imagination does not have to reach the heights to suppose or conclude that all planets, all stars have magnetic fields.

In the year 1908, not fifty years ago, Hale first definitely demonstrated that the sun possessed a magnetic field. Methinks the Venusians or saucer people knew this more than five hundred years ago. That's why they fly our skies today. They learned how to use those solar lines of force for propulsion.

Run the whole gamut of magnetic history, from Gilbert's "De Magnete" and what do we find. He opened up the subject to experimental study in 1600. Two hundred years passed until Oersted gave magnetics a great forward shove. We have moved slowly through periods of progress until we have reached our present position relating to the electron theory of matter which conceives each atom of matter as made of a central nucleus about which electrons are revolving.

When we get to the very bottom of present day research we find that we can't get away from something rotating within the medium when it is subjected to a magnetic field.

The observers tell us the saucers seem to rotate - at least they talk about revolving rings and spinning balls beneath the ship

itself. The only movie that I know about of a U.F.O. clearly depicts a magnetic field in motion. One thing is certain, something turns, either the nucleus or the electrons in their orbits. The atom and the electrons do not turn together.

Scientists today are learning that there is a tendency for electrons to occur in pairs, and two electrons revolving in orbits behave like magnets. This magnetism business turns up all the time and now hold on to your seats for this one. Magnetic fields possess the property of sound. Now, crucify me some more if there are any among you who doubt or deny this statement. That statement may at this very moment already be a proven fact and recorded on tape for your listening pleasure.

My friend Engel, a noted supersonic scientist, out in California, after I had shown and explained to some scientists a series of magnetic vortices in the Santa Monica Mountains, decided to do something about it . I had noted a phase change within the vortex itself and that change shunted out completely during a two hour period any field of force action. This indicated that lines of force were affected and that if they possessed the property of sound they could be detected at the line constituting the edge of the vortex.

Tillman, a physicist, first detected a tonal change and Engle undertook the measurement of it. His problem was first to find the supersonic range and then hetrodyne those waves to the audible state and then transfer them to tape.

Such a problem if solved would for the first time give to science an answer to what is taking place within the skin of the earth in so far as magnetic lines of force are concerned.

If in the case of the vortex, there was an absence of sound on the inside of the vortex, what happened with the stoppage of the lines of force at this outer border. What replaced this force within the vortex. Does cosmic energy replace the field and thereby maintain the integrity of the mass of matter within the vortex? Scientists are puzzled as to the mission of cosmic rays. Are they an energizing force from the solar field and if so, and they find their way into the earth's terrestrial field, do they only do this through vortices. If so how many of these vortices are there over the earth? One thing is certain. The twenty three vortices found in the Santa Monicas were all in highly brecciated fault areas.

As long as the forces of erosion continue there well be an ever changing ever shifting of the outer skin of this earth and with the shifting of ~~the~~ masses of matter, and since the density of this eroded matter varies, there's going to be faulting. This faulting is of many forms. Faulting occurs in sediments just as they do in various types of igneous formations. Faults have length, breadth and thickness and magnetic lines of force are disturbed in, above and below faulting in the earth's mass. This fact is so simple of proof that I won't even leave it to his astrophysical Majesty Donald Menzel to explain. My young son could do a better-job than dear Donald did in his chapter twelve on flying saucers.

Since faulting is wide spread over this earth I feel certain than once it is established by Engel and others that the Santa Monica vortices have a relation to the solar cosmic ray, business will begin to get somewhere. Carnegie Institute scientists lead the way in charting the vortex pattern throughout the world, once they know how to identify them.